

# Attachment E202: Fuel Burning Equipment Supplemental Application Form

Applicant Name: CPV Towantic, LLC  
 Unit No.: CT2

DEEP USE ONLY
App. No.: _____

Complete this form in accordance with the [instructions](#) (DEEP-NSR-INST-202) to ensure the proper handling of your application. Print or type unless otherwise noted.

Note: Certain external combustion units may be operated pursuant to RCSA section 22a-174-3b or -3c in lieu of a permit to construct and operate pursuant to RCSA section 22a-174-3a.

Complete a separate form for *each* fuel burning source.

Questions? Visit the [Air Permitting](#) web page or contact the Air Permitting Engineer of the Day at 860-424-4152.

## Part I: General

<b>Type of Unit</b> ( <i>check one</i> )	<input type="checkbox"/> Boiler <input type="checkbox"/> Heater/Furnace <input type="checkbox"/> IC Engine <input checked="" type="checkbox"/> Turbine <input type="checkbox"/> Duct Burner <input type="checkbox"/> Other (specify):
<b>Manufacturer and Model Number</b>	GE 7HA01
<b>Construction Date</b>	
<b>Manufacture Date</b>	
<b>Is this unit subject to Title 40 CFR Part 60, NSPS?</b>	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, Subpart(s) <b>KKKK</b>
<b>Is this unit subject to Title 40 CFR Part 63, MACT?</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, Subpart(s)
<b>Maximum Design Heat Input</b>	2,526 @ -14.2F MMBtu/hr
<b>Typical Heat Input</b>	2,426 @ ISO conditions MMBtu/hr
<b>Maximum Operating Schedule</b>	<b>24</b> hours/day <b>8760</b> hours/year
<b>Percentage of Annual Use in Each Category</b>	Space Heat: %
	Process Heat: %
	Power: <b>100%</b>

## Part II: Fuel Information

Fuel Type	% Sulfur by weight	Higher Heating Value (BTU)	Maximum Hourly Firing Rate	Maximum Annual Fuel Usage	Units (gal or ft <sup>3</sup> )
Natural Gas	0.0016	1,028	2.46E06	2.15E10	ft3
ULSD	0.0015	138,000	18,290	1.3E7	gal

Note: Parts III and IV are unit specific. Complete only that section which applies to the subject unit.

### Part III: External Combustion Unit Information (Boiler or Heater/Furnace)

<b>Burner Manufacturer and Model Number</b>	
<b>Number of Burners</b>	
<b>Burner Maximum Rated Capacity (per burner)</b>	MMBtu/hr
<b>Firing Type and Method Information</b> (Choose all that apply)	
<b>Oil/Gas Fired Unit</b>	<input type="checkbox"/> Tangentially Fired <input type="checkbox"/> Horizontally Opposed (normal) Fired <input type="checkbox"/> Other (specify):
<b>Pulverized Coal Fired Unit</b>	<input type="checkbox"/> Dry Bottom <input type="checkbox"/> Wet Bottom <input type="checkbox"/> Wall Fired <input type="checkbox"/> Tangentially Fired <input type="checkbox"/> Horizontally Fired <input type="checkbox"/> Vertically Fired <input type="checkbox"/> Other (specify):
<b>Coal/Wood Fired Stoker Unit</b>	<input type="checkbox"/> Overfeed <input type="checkbox"/> Underfeed <input type="checkbox"/> Spreader <input type="checkbox"/> Hand Fed <input type="checkbox"/> IGCC (Integrated Gasification Combined Cycle) <input type="checkbox"/> Other (specify):
<b>Coal/Wood Fired Fluidized Bed Combustor</b>	<input type="checkbox"/> Circulating Bed <input type="checkbox"/> Bubbling Bed <input type="checkbox"/> Cyclone Furnace <input type="checkbox"/> Other (specify):
<b>Other Coal/Wood Fired Unit</b>	<input type="checkbox"/> Suspension Firing <input type="checkbox"/> Dutch Oven/Fuel Cell Oven <input type="checkbox"/> Over Fire Air <input type="checkbox"/> Other (specify):

**Part IV: Internal Combustion (IC) Unit Information (IC Engine or Turbine)**

<b>IC Engine Information</b>	
<b>IC Engine Operation</b> ( <i>check one</i> )	<input type="checkbox"/> Emergency Only <input type="checkbox"/> Emergency/Non-Emergency
<b>IC Engine Ignition</b> ( <i>check one</i> )	<input type="checkbox"/> Compression <input type="checkbox"/> Spark
<b>IC Engine Type</b> ( <i>check one</i> )	<input type="checkbox"/> 4-Stroke Rich Burn (4SRB) <input type="checkbox"/> 4-Stroke Lean Burn (4SLB) <input type="checkbox"/> 2-Stroke Lean Burn (2SLB)
<b>IC Engine Brake Horsepower</b>	HP
<b>IC Engine Power Output</b>	MW
<b>Turbine Information</b>	
<b>Turbine Operation</b> ( <i>check one</i> )	<input type="checkbox"/> Emergency Only <input checked="" type="checkbox"/> Emergency/Non-Emergency
<b>Turbine Type</b> ( <i>check one</i> )	<input type="checkbox"/> Simple Cycle <input checked="" type="checkbox"/> Combined Cycle
<b>Turbine Power Output</b>	262 @ ISO conditions MW

**Part V: Combustion Controls Information** (Check all that apply)

<b>Type of Combustion Control(s) or Modifications(s)</b>	<input checked="" type="checkbox"/> Low NOx Burners	<input type="checkbox"/> Fly Ash Reinjection
	<input type="checkbox"/> Flue Gas Recirculation	<input type="checkbox"/> Reburn
	<input checked="" type="checkbox"/> Selective Catalytic Reduction	<input type="checkbox"/> Selective Non-Catalytic Reduction
	<input type="checkbox"/> Coal Reburn	<input checked="" type="checkbox"/> Oxidation Catalyst
	<input type="checkbox"/> Gas Reburn	<input type="checkbox"/> 3-way Catalyst
	<input type="checkbox"/> Lean Burn	<input type="checkbox"/> Over Fire Air
	<input type="checkbox"/> Rich Burn	<input type="checkbox"/> Biased Burner Firing
	<input type="checkbox"/> Low Excess Air	<input type="checkbox"/> Burners Out of Service
	<input type="checkbox"/> Other (specify):	<input type="checkbox"/> None

## Part VI: Attachments

Please check the attachments being submitted as verification that all applicable attachments have been submitted with this application form. When submitting such documents, please label the documents as indicated in this Part (e.g., Attachment E202-A, etc.) and be sure to include the applicant's name.

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| <input checked="" type="checkbox"/> Attachment E202-A: | <i>Process Information and Flow Diagram</i> – Submit a process flow diagram indicating all related equipment, air pollution control equipment and stacks, as applicable. Identify all materials entering and leaving each such device indicating quantities and parameters relevant to the proper operation of the device. Indicate all monitoring devices and controls. <b>REQUIRED</b> |
| <input checked="" type="checkbox"/> Attachment E202-B: | <i>Manufacturer Information</i> - Submit copies of the manufacturer specification sheets for the unit, the air pollution control equipment and the monitoring systems. <b>REQUIRED</b>   |
| <input checked="" type="checkbox"/> Attachment E202-C: | <i>Turbine Emissions Profiles</i> - Submit copies of manufacturer's emissions profile data for steady state and transient operation of the turbine. <b>IF APPLICABLE</b>   |